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08/28/2001	Rene Monshouwer	NL000770	6675		
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PHILIPS INTELLECTUAL PROPERTY & STANDARDS			STOCK JR, GORDON J		
P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510		ART UNIT	PAPER NUMBER		
1, 1,1 10010		2877			
(08/28/2001 12/01/2004 CTUAL PROPER	08/28/2001 Rene Monshouwer 12/01/2004 CTUAL PROPERTY & STANDARDS	08/28/2001 Rene Monshouwer NL000770 12/01/2004 EXAM CTUAL PROPERTY & STANDARDS STOCK JR, R, NY 10510 ART UNIT		

DATE MAILED: 12/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examiner			Applicati	on No.	Applicant(s)	Applicant(s)		
Sortion Stock 2877 Stock 2878 Stock	Office Action Summary		09/940,8	19	MONSHOUWER ET AL.			
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extendings of time may be available under the provisions of 3 (76F 1.138(a). In no event, however, may a reply be timely filled after 50k (9) MONTHS from the mailing date of this communication. If the period for reply is specified above, the meaning attent of provisions of 3 (76F 1.138(a)). In no event, however, may a reply the timely filled after 50k (9) MONTHS from the mailing date of this communication. If the period for reply is specified above, the meaning statistry period will apply and will easier SN (6) MONTHS from the realiting date of this communication. If the period for reply is specified above, the meaning statistry period will apply and will easier SN (6) MONTHS from the realiting date of this communication, even if timely filled, may reduce any seamed patient term adjustment. See 37 CFR 1.704(b). Status 1) □ Responsive to communication(s) filled on 20 October 2004. 2a) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 1-6 and 8-11 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) 1-6 and 8-11 is/are rejected. 7) □ Claim(s) is/are allowed. 6) □ Claim(s) 1-6 and 8-11 is/are rejected. 7) □ Claim(s) is/are objected to. Application Papers 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filled on 10/20/04 is/are: a) □ accepted or b) □ objected to by the Examiner. Application Papers 9) □ The drawing(s) filled on 10/20/04 is/are: a) □ accepted or b) □ objected to by the Examiner. Application Papers 11) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 2) □ Ack			Examine	Examiner Art Unit				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13(a). In no event, however, may a reply be timely filled safet Six (WONTH'S from the mailing date of this (communication.) - If the period for reply specified above is less than thinty (30) darp, a reply with the statutory informand of thinty (30) darp will be considered timely. - If the period for reply specified above is less than thinty (30) darp, a reply with the statutory informand of thinty (30) darp will be considered timely. - If the period for reply specified above is less than thinty (30) darp, and the statutory informand of thinty (30) darp will be considered timely. - If the period for reply specified above is less than thinty (30) darp, will be considered timely. - If the period for reply specified above is less than three months offer the mailing date of this communication. - Failute to pay with the sear or ready will be statute, source the mailing date of this communication, even if timely filed, may reduce any seared patent term adjustment. See 37 CFR 1.704(b). - Status - 1)	<u>.</u>					**		
THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be variable under the provisions of 37 CRR 1.136(a). In no event, however, may a reply be timely filed after SIX (8) MONTHS from the mailing date of this communication. If the period for reply specified above, the maximum selation period will apply and will expire SIX (8) MONTHS from the mailing date of this communication. If the period for reply is specified above, the maximum selation period will apply and will expire SIX (8) MONTHS from the mailing date of this communication. Any replacewable ty the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any same patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 20 October 2004. 22) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-6 and 8-11 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 10/20/04 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a), Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received			tion appears on th	e cover sheet with t	he correspondence ad	dress		
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* See the attached detailed Office action for a list of the certified copies not received.			•			· ·		
	* 9	See the attached detailed Office action f	or a list of the cert	ified copies not rec	eived.			
Attachment(s)	Attachmen	t(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Pager No(c)(Mail Date			0.40					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 20020418. Paper No(s)/Mail Date 20020418. Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) Other:	3) 🛛 Inforr	mation Disclosure Statement(s) (PTO-1449 or PT		5) Notice of Inform		D-152)		

DETAILED ACTION

DETAILED ACTION

Information Disclosure Statement

1. The Information Disclosure Statement filed on April 18, 2002 has been considered by the Examiner. However the two references: Patent Abstract of Japan/JP 02 069604 and "Novel ... Precision" by Moel et al. were not considered for they do not comply with the provisions of 37 CFR 1.97, 1.98 and MPEP § 609 because no legible copies of the references were submitted.

Claim Objections

- 2. Claim 1 is objected to for the following: "an interference patter" on line 14 should read

 -an interference pattern--. Correction is required.
- 3. Claim 9 is objected to for the following: "the alignment-measuring method" of line 10 lacks antecedent basis. Correction is required.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 1-6, 8-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 6. The terms "substantially smaller" and "substantially equal" in claims 1 and 9 and "substantially smaller" of claim 5 are relative terms which render the claims indefinite. The term "substantially smaller" and "substantially equal" are not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of

ordinary skill in the art would not be reasonably apprised of the scope of the invention. The term 'substantially' renders the size of the substrate alignment mark's period and the interference pattern's period indefinite. Claims 2-4, 6, 8, 10-11 are rejected for being dependent upon a rejected base claim.

7. Claims 1 and 9 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: the relationship between 'a substrate alignment mark with an alignment beam' and 'a substrate alignment mark having a periodic structure,' and 'the reference alignment mark' and 'a mask alignment mark.' In addition, the term "the substrate alignment mark" on line 14 of claim 1 and on line 23 of claim 9 is indefinite, for it is unclear as to what alignment mark it is referring to: 'a substrate alignment mark with an alignment beam' or 'a substrate alignment mark having a periodic structure,' Claims 2-4, 6, and 8 are rejected for depending upon a rejected base claim.

Double Patenting

8. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

9. Claims 1-4, 6, and 8 are rejected under the judicially created doctrine of obviousnesstype double patenting as being unpatentable over claims 1-7 of U.S. Patent Application

09/940,818 (Monshouwer et al.). Although the conflicting claims are not identical, they are not
patentably distinct from each other because claims 1 and 6 and claims 1, 5, and 6 of the other
application are both methods of measuring alignment or type of alignment, overlay, utilizing the
same substrate alignment mark, reference alignment mark, a substrate alignment mark with a
specific period and a resist mark with a specific period and measuring/detecting an interference
pattern generated by the substrate alignment mark and resist mark which is then imaged onto a
reference alignment mark using on-axis principles and an optical filter to select diffraction orders
of the radiation. Claims 2 of both applications relate to the same marks with similar periods
being used. Claims 3 of both applications mention using gratings for the marks. Claims 4 of
both applications mention using latent marks. Claim 8 and claim 7 of the other application both
are methods of alignment involving off axis alignment.

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Allowable Subject Matter

10. Claims 1-4, 6, and 8 would be allowable if rewritten or amended to overcome the

rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and if the double

patenting rejection is overcome.

Claims 5, 9-11 would be allowable if rewritten or amended to overcome the rejection(s)

under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

As to claim 1, the prior art of record, taken alone or in combination, fails to disclose or

render obvious in a method of measuring alignment imaging the particular interference pattern

on a mask alignment mark using an optical filter in combination with the rest of the limitations

of claims 1-4, and 8.

As to claim 5, the prior art of record, taken alone or in combination, fails to disclose or

render obvious in a method of aligning a substrate with respect to a mask imaging an interference

pattern on a non-substrate reference alignment mark via an optical filter in combination with the

rest of the limitations of claims 5, 10, and 11.

As to claim 9, the prior art of record, taken alone or in combination, fails to disclose or

render obvious in a method of manufacturing devices imaging the particular interference pattern

on a mask alignment mark via an optical filter, in combination with the rest of the limitations of

claim 9.

Response to Arguments

11. Applicant's arguments, see Remarks, filed September 15, 2004, with respect to the claim

9 under 35 U.S.C. 102(a) and 102(e); and claims 1-6 and 8 under 35 U.S.C. 103(a) have been

fully considered and are persuasive. In view of the persuasiveness and the amendment to the

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claims the rejections have been withdrawn. However, upon further consideration, a new ground(s) of rejection is made. See 35 U.S.C. 112nd second paragraph and double patenting rejection above.

Fax/Telephone Numbers

If the applicant wishes to send a fax dealing with either a proposed amendment or a discussion with a phone interview, then the fax should:

- 1) Contain either a statement "DRAFT" or "PROPOSED AMENDMENT" on the fax cover sheet; and
 - 2) Should be unsigned by the attorney or agent.

This will ensure that it will not be entered into the case and will be forwarded to the examiner as quickly as possible.

Papers related to the application may be submitted to Group 2800 by Fax transmission. Papers should be faxed to Group 2800 via the PTO Fax machine located in Crystal Plaza 4. The form of such papers must conform to the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The CP4 Fax Machine number is: (703) 872-9306

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gordon J. Stock whose telephone number is (571) 272-2431.

The examiner can normally be reached on Monday-Friday, 10:00 a.m. - 6:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory J. Toatley, Jr., can be reached at 571-272-2800 ext 77.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private Pair system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

gs November 22

November 23, 2004

EREPORY J. FORTI BY JR.

EREPORY EXAMINER SPE 2877

PRIMARRY EXAMINER SPE 2877